



Technical data sheet
Features Service class 2
galvanized steel Technical
approvals ETA-12/0359;



[ETA-12/0359](#), [UK-DoP-e12/0359](#)

FEATURES

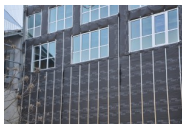


Material

- electro-galvanized screws + nylon pouch.

Benefits

- Easy assembly and disassembly
- Anchorage anchors using screws or hitting a nail.
- Electrochemical Separation anchor collar (galvanic corrosion).



APPLICATIONS

Header member

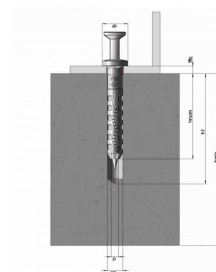
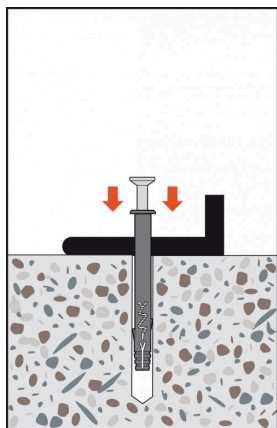
Concrete and reinforced concrete
Brick full
Composite materials

For Use With

- establishment rafters and shoes.
- the mounting rails for cable and pipeline routes.
- fixing lightweight facades and walls in indoor and outdoor areas.

TECHNICAL DATA

Product Dimensions



| References | Item Code | ETA | Tun / DB nr. | NOB nr. | Anchor Ø x LD [mm] | Ø Nail x LN [mm] | Ø drilling hole x min. drilling depth [d0 x h1] [mm] | Max fixture thickness [tfix] [mm] | Total Length [L] [mm] | Packaging [Cdt] [pcs] | Ø Fixture Hole [df] [mm] | Embedment depth [hnom ≥] [mm] |
|---------------|-----------|-----|--------------|---------|--------------------|------------------|--|-----------------------------------|-----------------------|-----------------------|--------------------------|-------------------------------|
| HIP 5-30/5 | HIP05030 | - | - | - | 5 x 30 | 3,4 x 35 | 5 x 35 | 5 | 30 | 300 | 5 | 25 |
| HIP 5-40/15 | HIP05040 | - | - | - | 5 x 40 | 3,4 x 45 | 5 x 35 | 15 | 40 | 200 | 5 | 25 |
| HIP 5-50/25 | HIP05050 | - | - | - | 5 x 50 | 3,4 x 55 | 5 x 35 | 25 | 50 | 200 | 5 | 25 |
| HIP 6-40/10 | HIP06040 | - | - | - | 6 x 40 | 3,8 x 45 | 6 x 40 | 10 | 40 | 200 | 6 | 30 |
| HIP 6-50/20 | HIP06050 | - | - | - | 6 x 50 | 3,8 x 55 | 6 x 40 | 20 | 50 | 100 | 6 | 30 |
| HIP 6-60/30 | HIP06060 | - | - | - | 6 x 60 | 3,8 x 65 | 6 x 40 | 30 | 60 | 100 | 6 | 30 |
| HIP 6-80/50 | HIP06080 | - | - | - | 6 x 80 | 3,8 x 85 | 6 x 40 | 50 | 80 | 100 | 6 | 30 |
| HIP 8-60/20 | HIP08060 | - | - | - | 8 x 60 | 4,8 x 65 | 8 x 50 | 20 | 60 | 150 | 8 | 40 |
| HIP 8-80/40 | HIP08080 | - | - | - | 8 x 80 | 4,8 x 85 | 8 x 50 | 40 | 80 | 150 | 8 | 40 |
| HIP 8-100/60 | HIP08100 | - | - | - | 8 x 100 | 4,8 x 105 | 8 x 50 | 60 | 100 | 100 | 8 | 40 |
| HIP 8-120/80 | HIP08120 | - | - | - | 8 x 120 | 4,8 x 125 | 8 x 50 | 80 | 120 | 100 | 8 | 40 |
| HIP 8-140/100 | HIP08140 | - | - | - | 8 x 140 | 4,8 x 145 | 8 x 50 | 100 | 140 | 100 | 8 | 40 |

Recommended loads

| References | Tension - Nrec [kN] | | | | Shear - Vrec [kN] | | | | Bending moment [Mzul] [Nm] | NRd [kN] | | VRd [kN] | |
|-------------|-----------------------------|--------------|-------------|----------------|-----------------------------|--------------|-------------|----------------|----------------------------|-----------------|---------------------------|-----------------|---------------------------|
| | Non-cracked concrete C20/25 | Hollow brick | Solid brick | Concrete brick | Non-cracked concrete C20/25 | Hollow brick | Solid brick | Concrete brick | | Concrete C20/25 | Solid brick - fb > 22 Mpa | Concrete C20/25 | Solid brick - fb > 22 Mpa |
| HIP 5-30/5 | 0.15 | - | 0.13 | - | 0.4 | - | 0.4 | - | 0.8 | - | - | - | - |
| HIP 5-40/15 | 0.15 | - | 0.13 | - | 0.4 | - | 0.4 | - | 0.8 | - | - | - | - |
| HIP 5-50/25 | 0.15 | - | 0.13 | - | 0.4 | - | 0.4 | - | 0.8 | - | - | - | - |
| HIP 6-40/10 | 0.43 | - | 0.24 | - | 0.42 | - | 0.42 | - | 1 | - | - | - | - |
| HIP 6-50/20 | 0.43 | - | 0.24 | - | 0.42 | - | 0.42 | - | 1 | - | - | - | - |
| HIP 6-60/30 | 0.43 | - | 0.24 | - | 0.42 | - | 0.42 | - | 1 | - | - | - | - |
| HIP 6-80/50 | 0.43 | - | 0.24 | - | 0.42 | - | 0.42 | - | 1 | - | - | - | - |
| HIP 8-60/20 | 0.43 | - | 0.3 | - | 0.8 | - | 0.8 | - | 2.1 | - | - | - | - |
| HIP 8-80/40 | 0.43 | - | 0.3 | - | 0.8 | - | 0.8 | - | 2.1 | - | - | - | - |

| References | Tension - Nrec [kN] | | | | Shear - Vrec [kN] | | | | Bending moment [Mzul] [Nm] | NRd [kN] | | VRd [kN] | |
|---------------|-----------------------------|--------------|-------------|----------------|-----------------------------|--------------|-------------|----------------|----------------------------|-----------------|------------------------------|-----------------|------------------------------|
| | Non-cracked concrete C20/25 | Hollow brick | Solid brick | Concrete brick | Non-cracked concrete C20/25 | Hollow brick | Solid brick | Concrete brick | | Concrete C20/25 | Solid brick - fb > 22 Mpa | Concrete C20/25 | Solid brick - fb > 22 Mpa |
| HIP 8-100/60 | 0.43 | - | 0.3 | - | 0.8 | - | 0.8 | - | 2.1 | - | - | - | - |
| HIP 8-120/80 | 0.43 | - | 0.3 | - | 0.8 | - | 0.8 | - | 2.1 | - | - | - | - |
| HIP 8-140/100 | 0.43 | - | 0.3 | - | 0.8 | - | 0.8 | - | 2.1 | - | - | - | - |

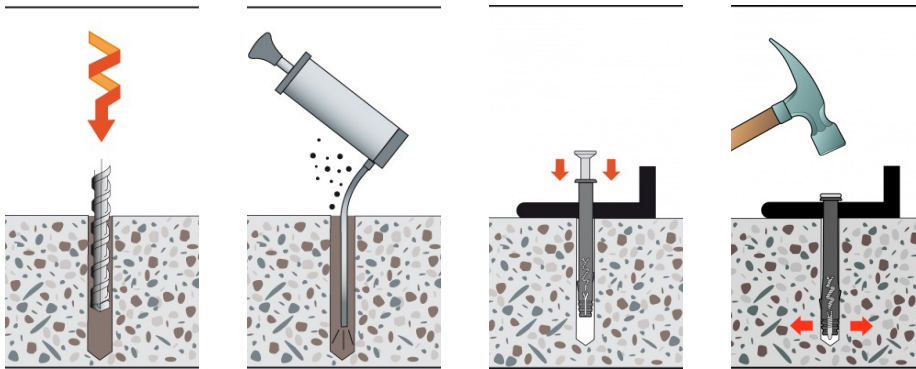
- 1) Recommended loads: they are calculated using characteristic loads from the ETA by applying partial security factor from ETAG001 and partial action factor $\gamma_f = 1,4$.
- 2) Recommended loads in tension: they are calculated for non reinforced concrete and reinforced concrete with rebar spacing is $S \leq 15$ cm or $S \leq 10$ cm if the diameter is lower or equal to 10mm.
- 3) Recommended loads in shear: the values are calculated for one anchor without any edge effect. When shear load are applied close to the edge ($C \leq 10h_{ef}$ or $60d$), the edge failure must be checked according to ETAG001, annec C method A.
- 4) Non cracked concrete: the concrete is non cracked we the inner tension is equal to $\sigma_L + \sigma_R \leq 0$. If no checking is made $\sigma_R = 3N/mm^2$ (σ_L is the inner tension resulting from outside loads, including anchor load).
- 5) Hollow concrete block: in case of hollow concrete block, the anchor must be in the second socket. To know the recommended loads in this case, please contact our technical service.

INSTALLATION

Installation

La cheville à frapper se pose au travers de la pièce à fixer et s'expande sur la longueur du trou par friction lors de son installation au marteau.

La colerette aide au maintien de la pièce. Pour la pose en maçonnerie creuse, l'expansion de la cheville doit se faire dans au moins une des parois du support.



Percer le trou

Dépoussiérer le trou

Monter la cheville au travers de la pièce à fixer

Enfoncer au marteau

Installation data

| References | Ø drilling diameter [d0] [mm] | Depth of the drilling hole [h1] [mm] | Ø Nail [d] [mm] | Ø skirt [dr] [mm] | Embedment depth [hef] [mm] | Embedment depth [hnom] [mm] | Ø Fixture Hole [df] [mm] | Minimum spacing [smin] [mm] | Minimum edge distance [cmin] [mm] | Min. support thickness [hmin] [mm] |
|---------------|-------------------------------|--------------------------------------|-----------------|-------------------|----------------------------|-----------------------------|--------------------------|-----------------------------|-----------------------------------|------------------------------------|
| HIP 5-30/5 | 5 | 35 | 3.4 | 11 | 35 | 25 | 5 | 40 | 50 | 50 |
| HIP 5-40/15 | 5 | 35 | 3.4 | 11 | 35 | 25 | 5 | 40 | 50 | 50 |
| HIP 5-50/25 | 5 | 35 | 3.4 | 11 | 35 | 25 | 5 | 40 | 50 | 50 |
| HIP 6-40/10 | 6 | 40 | 3.8 | 13 | 40 | 30 | 6 | 100 | 100 | 100 |
| HIP 6-50/20 | 6 | 40 | 3.8 | 13 | 40 | 30 | 6 | 100 | 100 | 100 |
| HIP 6-60/30 | 6 | 40 | 3.8 | 13 | 40 | 30 | 6 | 100 | 100 | 100 |
| HIP 6-80/50 | 6 | 40 | 3.8 | 13 | 40 | 30 | 6 | 100 | 100 | 100 |
| HIP 8-60/20 | 8 | 50 | 4.8 | 15 | 50 | 40 | 8 | 100 | 100 | 100 |
| HIP 8-80/40 | 8 | 50 | 4.8 | 15 | 50 | 40 | 8 | 100 | 100 | 100 |
| HIP 8-100/60 | 8 | 50 | 4.8 | 15 | 50 | 40 | 8 | 100 | 100 | 100 |
| HIP 8-120/80 | 8 | 50 | 4.8 | 15 | 50 | 40 | 8 | 100 | 100 | 100 |
| HIP 8-140/100 | 8 | 50 | 4.8 | 15 | 50 | 40 | 8 | 100 | 100 | 100 |